

Title (en)

MACHINE FOR LIQUID OR SEMI-LIQUID FOOD PRODUCTS

Title (de)

MASCHINE FÜR FLÜSSIGE ODER HALBFLÜSSIGE NAHRUNGSMITTELPRODUKTE

Title (fr)

MACHINE POUR PRODUITS ALIMENTAIRES LIQUIDES OU SEMI-LIQUIDES

Publication

EP 3381295 A1 20181003 (EN)

Application

EP 18164178 A 20180327

Priority

IT 201700035879 A 20170331

Abstract (en)

A machine (1) for making liquid or semi-liquid products, comprises: - a first container (3) adapted to contain a basic mixture, having an inside surface (3A) and an outside surface (3B) and equipped with a stirrer (4) disposed inside the first container (3); - a thermodynamic system comprising a circuit for circulating a heat exchanger fluid and a first heat exchanger (6) associated, in use, with walls of the first container (3), the first heat exchanger (6) is defined by at least one element (7) which is fixable, in use, to the outside surface (3B) of the first container (3), having an open cavity (8), extending uninterruptedly and defining, when coupled with the outside surface (3B), a channel for circulating heat exchanger fluid, the element (7) also having at least one inlet (I) and one outlet (U) for the heat exchanger fluid.

IPC 8 full level

A23G 9/16 (2006.01); **A23G 9/22** (2006.01)

CPC (source: CN EP US)

A23G 9/04 (2013.01 - CN); **A23G 9/045** (2013.01 - US); **A23G 9/16** (2013.01 - EP US); **A23G 9/22** (2013.01 - EP US);
A23G 9/224 (2013.01 - CN EP US); **F28D 7/0075** (2013.01 - US); **F28D 7/024** (2013.01 - US); **F28F 13/125** (2013.01 - US);
F28F 2275/06 (2013.01 - US)

Citation (search report)

- [X] GB 507505 A 19390616 - ALBERTO FRANCESCO GENOVA
- [Y] EP 3095332 A1 20161123 - CARPIGIANI GROUP ALI SPA [IT]
- [Y] US 5799726 A 19980901 - FRANK JIMMY I [US]
- [Y] FR 2261494 A1 19750912 - PEPIN FILS [FR]
- [Y] GB 1014916 A 19651231 - APAW SA
- [Y] EP 1450114 A1 20040825 - BOSCH GMBH ROBERT [DE]
- [A] US 5845512 A 19981208 - CHASE THOMAS W [US], et al
- [A] EP 0311158 A2 19890412 - BRAVO SPA [IT]

Cited by

US11672382B2; EP3718409A1; US12022979B2; USD985331S; USD1021520S; US11571009B2; USD985334S; USD1021533S; US11864690B2;
US12016493B2; US12016496B2; USD1033134S; USD1034071S; US11540669B2; US11617378B2; US11641978B2; US11871765B2;
US11503959B2; USD983603S; US11832767B2; US11925298B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3381295 A1 20181003; **EP 3381295 B1 20210113**; CN 108813085 A 20181116; IT 201700035879 A1 20181001;
JP 2018173263 A 20181108; JP 7140524 B2 20220921; US 11140911 B2 20211012; US 2018279645 A1 20181004

DOCDB simple family (application)

EP 18164178 A 20180327; CN 201810293018 A 20180330; IT 201700035879 A 20170331; JP 2018064464 A 20180329;
US 201815928820 A 20180322